

Listing of Claims:

1. (Currently Amended) A method for changing parallel signals in a digital data transmission over a radio link, in which data flow to be transmitted is divided into several transmissions, comprising the steps of:

selecting a primary transmission path;

calculating a check sum for the data flow of a length of a processed section of the data flow, said check sum being added to the processed section of the data flow in order to form a data frame to be transmitted;

transmitting the data frame in transmission paths[[,]];

correcting correctable errors in received data frames, and calculating an error sum for each transmission path;

comparing the error sum of a selected transmission path with error sums of other paths, said transmission path being changed to a path with a smaller error sum when said transmission path is selected as the path to be received;

changing a path of a clock signal after waiting for sufficiently accurately cophasal clock signals; and

forwarding information in the data flow of the processed section of the selected transmission path to an output cable.

2. (Previously Presented) The method according to claim 1, wherein the check sum is calculated by multiplying the data flow by a polynome suitable for modelling.

3. (Previously Presented) An indoor unit for digital data transmission and for selecting a data flow for parallel signals in a digital data transmission over a radio link, comprising:

at least a changeover device for receiving and changing a propagation assured signal on a basis of an error sum obtained from an outdoor unit;

wherein said changeover device is configured to change clock signals after waiting for sufficiently accurately cophasal clock signals.

4. (Previously Presented) The indoor unit according to claim 3, wherein the changeover device comprises:

a multiplexer for receiving the clock signals of signal pairs to be received and for selecting the clock signal to be received;

data frame decoding blocks for receiving the clock signals and data signals and for forming said signals into control signals and data signals which are decoded from the data frames;

elastic buffer and control blocks for receiving the control signals and data signals decoded from the data frames and for receiving a selected clock signal in order to synchronize the data signals decoded from the frames;

a data signal multiplexer for receiving the data signals from the elastic buffer and the control blocks; and

a decoding block for receiving a data signal from the data signal multiplexer and for controlling the data signal multiplexer.

5. (Previously Presented) The indoor unit according to claim 3, wherein the indoor unit comprises part of a radio link in a mobile telecommunications system.

6. (Previously Presented) An outdoor unit for digital data transmission over a radio link and for selecting data flow for parallel signals in digital data transmission, comprising:

at least a transmitter for transmitting a signal to be changed;

a receiver for receiving said signal; and

means for calculating an error sum of the received signal and for outputting information indicating said error sum; and

means for indicating a change of a clock signal by sufficiently accurately cophasal clock signals and for outputting information indicating said change.

7. (Previously Presented) The outdoor unit according to claim 6, wherein the outdoor unit forms part of a radio link in a mobile telecommunications system.

8. (Previously Presented) An apparatus for changing parallel signals in digital data transmission over radio link, said apparatus comprising:

a first indoor unit for dividing data which flows over the radio link, said

first indoor unit having a first changeover device for receiving propagation assured data;

antennas for transmitting and receiving parallel clock signals; and
a second indoor unit for selecting the data flow, said second unit having a second changeover device for receiving the propagation assured data;

wherein said changeover devices are configured to change clock signals after waiting for sufficiently accurately cophasal clock signals, and said first and second outdoor units are provided with means for processing data to be transmitted using an algorithm that models the data to be transmitted, checks the data to be received and corrects errors in the data.

9. (Previously Presented) The apparatus according to claim 8, wherein the algorithm that models the data to be transmitted is a polynome.

10. (Previously Presented) The apparatus according to claim 8, wherein the changeover devices comprise a multiplexer for receiving the clock signals of signal pairs to be received and for selecting the clock signal to be received, data frame decoding blocks for receiving the clock signals and data signals and for forming said signals into control signals and data signals which are decoded from the data frames, elastic buffer and control blocks for receiving the control signals and data signals decoded from the data frames and for receiving the selected clock signal in order to synchronize the data, a data signal multiplexer for receiving data signals from the elastic buffer and control blocks, and a decoding block for receiving a data signal from the data signal multiplexer and for controlling the data signal multiplexer.

12. (Previously Presented) The indoor unit according to claim 4, wherein the indoor unit comprises part of a radio link in a mobile telecommunications system.